

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

CHEMICAL LIME COMPANY OF MISSOURI, INC.

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of
limestone in the state of Missouri. The extent of the

Proposed mining operation(s) will be on nine acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

| County | Section | Township | Range | Acres Renewed | Acres New | Total Acres | Site/Stream Name | Site Number |
|----------------|---------|----------|-------|------------------|--------------|----------------|---------------------|----------------|
| Ste. Genevieve | 12 | 38N | 08E | 9 | 0 | 9 | Gibbar Quarry | 0434 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

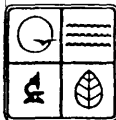
IN WITNESS WHEREOF I have hereunto set my hand this 8th day of June 2004



DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0371
Effective Date 07/13/2004
Expiration Date 07/12/2005

MO 780-1122 (6-95)



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

RECEIVED

JUN 3 - 2004

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

| | | | |
|---|-------------------------------|---|--------------------------|
| NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL Chemical Lime Company of Missouri | | MISSOURI LAND RECLAMATION COMMISSION DATE 5/28/04 | |
| ADDRESS 20947 White Sands Road | CITY Ste. Genevieve | STATE MO | ZIP CODE 63670 |
| CONTACT PERSON Patrick R. Fischer | | TELEPHONE NUMBER 573-883-3001 | |

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

| SITE NAME OR NUMBER (add a separate sheet for additional sites) | Mark each month that the site will be operated during the permit year | For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300 |
|--|---|--|
| 1. Gibbar Quarry (0371) | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ 150.00 |
| 2. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |
| 3. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |
| 4. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |
| 5. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |
| 6. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |
| 7. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |
| 8. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |
| 9. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |
| 10. | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | \$ |

TOTAL SITE FEE \longrightarrow \$ 150.00

2. Acreage Fee \$5 X 9 number of acres bonded \$ 45.00

3. Annual Permit Fee \$ 500

4. Total Fee (Add totals from 1, 2 and 3) \$ 695.00

NOTE: If Total Fee exceeds \$2,500.00 then pay only \$ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee \$ 300

| | | |
|---|-------------------------|-----------------|
| SIGNATURE OF APPLICANT <i>PR Fischer</i> | TITLE Quarry Manager | DATE 5/28/04 |
|---|-------------------------|-----------------|

Appeared before me this 28th day of May, 2004, Patrick R. Fischer
to me personally known, who executed the above as their free acts and deeds.

| | | |
|------------------------------|--|--|
| NOTARY PUBLIC EMBOSSEER SEAL | STATE OF Missouri | COUNTY (OR CITY OF ST. LOUIS) Ste. Genevieve |
| | SUBSCRIBED AND SWORN BEFORE ME, THIS <u>28th</u> DAY OF <u>May</u> YEAR <u>2004</u> | USE RUBBER STAMP IN ONE AREA BELOW. |
| | NOTARY PUBLIC SIGNATURE <i>Phyllis J. Jakerst</i> NOTARY PUBLIC NAME (TYPED OR PRINTED) Phyllis J. Jakerst | MY COMMISSION EXPIRES <u>4/8/07</u> |

| | | | |
|--|--------------------------------|------------------------------|-----------------------------------|
| FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i> | DATE APPROVED 6-4-05 | PERMIT NUMBER 0371 | EXPIRATION DATE 7-12-05 |
|--|--------------------------------|------------------------------|-----------------------------------|



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED
JUL 27 1994
MISSOURI LAND
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

| | | | |
|---|--------------------------------|---|--|
| SITE NAME OR NUMBER Site #1 - Gibbar Quarry | | PERMIT NUMBER 371 | |
| COMPANY NAME Chemical Lime Company of Missouri, Inc. | | | |
| COUNTY Ste. Genevieve | 1/4 SECTION NE 1/4 & NW 1/4 | SECTION 12 | |
| TOWNSHIP 38N | RANGE 8E | ACRES 9 Renewed | |
| RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A | | | |
| MINERAL COMMODITY Limestone | | ESTIMATED TONS/YEAR (FOR GRAVEL SITES) N/A | |

| | | |
|--|-------------|------------------------------|
| NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Chemical Lime Company of Missouri, Inc. | | |
| ADDRESS 3724 Hulen Street | | |
| CITY Fort Worth | STATE TX | ZIP CODE 76107 |
| SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____ | | DATE OF AGREEMENT 2/28/94 |
| <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT | | |

| | | |
|--|-------------|------------------------------|
| MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Chemical Lime Company of Missouri, Inc. | | |
| ADDRESS 3724 Hulen Street | | |
| CITY Fort Worth | STATE TX | ZIP CODE 76107 |
| SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____ | | DATE OF AGREEMENT 2/28/94 |
| <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT | | |

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

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JUL 27 1994

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: ~~June 2000~~ 7/13/2090 ASR per phone conversation w/ P. & F. L. R.

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY. 8/23/01

The Quarry Site Area consist of rolling non farmable pasture land with a few small sinkholes & bordered along its northerly edge by a steep rock outcropping bluff. Except for the steep bluff, and around the sinkholes, the area is sparsely wooded.

The soils are low to medium plasticity clays.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

4" - 6" INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Dozers and scrapers will remove and stockpile topsoil to designated areas. Overburden will also be removed in the same manner and either stockpiled or placed in areas ready for reclamation.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Stockpiled topsoil will be seeded to prevent erosion. When necessary, a straw cover will also be used to reduce erosion until a proper vegetation growth can be established. Dozers and farm equipment will be used for the above procedures.

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MISSOURI
RECLAMATION COMMISSION

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B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil materials consisting of waste rock and clay will be placed in designated areas (see attached sketch) by truck and graded by dozer. Upon reclamation, spoil will be covered by previously stockpiled clay and topsoil to a thickness no less than 12". The area will then be seeded as also described in this application. The reclaimed area will have a traverseable topography no steeper than 3:1.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

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RECLAMATION COMMISSION

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached map.

The quarry will advance in a westerly direction from the present face. Slopes in unconsolidated overburden excavation will be sloped to less than 40 degrees from horizontal. Fencing and gates along or near the boundaries of the property will be maintained during the mines actual term.

YES NO

- | | | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.) |

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

| | | |
|---------------------------|-----------------------------------|---|
| REVEGETATION MIX #1 #1 | PURPOSE OR LAND USE Industrial | B. SEEDING OR PLANTING TIME Spring or Fall |
|---------------------------|-----------------------------------|---|

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first seeding season following topsoil replacement, the seed will be broadcast and harrowed. Straw cover will be used in areas where necessary to reduce erosion until proper growth can be established.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

| SEEDED SPECIES | POUNDS/ACRE | TREE OR SHRUB SPECIES | STEMS/ACRE |
|--|--------------|-----------------------|------------|
| Kentucky Red Clover Perrenial Ryegrass | 12 4 6 | | |

| | | |
|---------------------------------|---------------------|-----------------------------|
| VEGETATION MIX #2 Not needed | PURPOSE OR LAND USE | B. SEEDING OR PLANTING TIME |
|---------------------------------|---------------------|-----------------------------|

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

| SEEDED SPECIES | POUNDS/ACRE | TREE OR SHRUB SPECIES | STEMS/ACRE |
|----------------|-------------|-----------------------|------------|
| | | | |

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING**DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

Spoil areas will be graded to slopes traversible by farm machinery. The quarry area will be utilized as an industrial site for a lime plant operation.

Areas to be reclaimed for wildlife will be covered by a minimum 12" thickness of soil to support proper vegetation.

(see map with attachment for areas designated as wildlife or industrial)

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

Grading will be done as the quarry advances and as spoil is placed in the designated areas. Final grading will be completed within one year after mine use is terminated in a specific area.

REPLACEMENT OF TOPSOIL

Topsoil will be laid down within one year after final grading except those areas to be utilized by the lime plant for industrial use and storage of raw materials.

REVEGETATION

All topsoiled areas will be seeded during the first planning season following topsoil replacement.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

9

Water impoundments (for wildlife, agricultural, or development)



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT TRANSFER

RECEIVED

JUL 27 1994

P.O. BOX 176
JEFFERSON CITY, MO 65102

PERMIT TRANSFER (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER
Marblehead Lime Company

PERMIT NUMBER
371

SITE(S)
Site #1 Gibbar Quarry

ADDRESS
222 North La Salle Street

CITY
Chicago

STATE

IL

ZIP CODE

60601

CONTACT PERSON
Eugene J. Penman, Vice President - Operations

PHONE NUMBER

(312) 263-4490

TO BE COMPLETED BY THE CURRENT PERMIT HOLDER

List all reclamation bonds which are held on this permit

| BONDING COMPANY | BOND NUMBER | BOND DATE | AMOUNT |
|-------------------------------------|-------------|-----------|------------|
| Safeco Insurance Company of America | 4472344 | 7-20-92 | \$8,500.00 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TO BE COMPLETED BY PROPOSED SUCCESSOR

NAME OF PROPOSED SUCCESSOR
Chemical Lime Company of Missouri, Inc.

ADDRESS
3724 Hulen Street

CITY
Fort Worth

STATE

TX

ZIP CODE

76107-6816

CONTACT PERSON
Jim Kelley

TELEPHONE NUMBER

(817) 732-8164

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

| NAME OF COMPANY | PERMIT NUMBER | MINERAL |
|-----------------|---------------|---------|
| None | | |
| | | |
| | | |
| | | |
| | | |

NOTE: The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

TRANSFER OF RECLAMATION RESPONSIBILITY

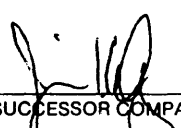
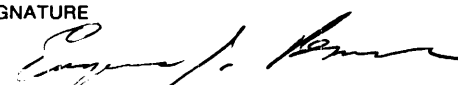
In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 371, which consists of 9 acres located in Section 12, Township 38 N, Range 8 E, Ste. Genevieve County, Missouri, Chemical Lime Company (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Marblehead Lime Company FORMER OPERATOR


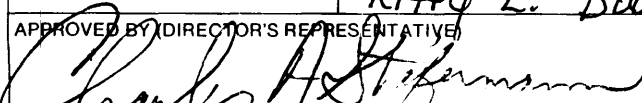
All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

| | | |
|--|---------------------------------|---|
| SIGNATURE  | NAME <u>Jim Kelley</u> | TITLE <u>VP. Geology</u> |
| PROPOSED SUCCESSOR COMPANY <u>Chemical Lime Company of Missouri, Inc.</u> | | DATE <u>7/25/94</u> |
| SIGNATURE  | NAME <u>EUGENE J. PENMAN</u> | TITLE <u>Vice-President - Operations</u> |
| CURRENT OPERATOR COMPANY <u>MARBLEHEAD LIME COMPANY</u> | | DATE <u>July 18, 1994</u> |

Appeared before me this 25 day of July, 19 94. Jim Kelley to me personally known, who executed the above as their free acts and deeds.

| | | |
|---|--------------------------------|--|
| NOTARY PUBLIC EMBOSSEER SEAL  | STATE <u>Texas</u> | COUNTY (OR CITY OF ST. LOUIS) <u></u> |
| SUBSCRIBED AND SWORN BEFORE ME, THIS DAY OF <u>July</u> , 19 <u>94</u> | | USE RUBBER STAMP IN CLEAR AREA BELOW |
| NOTARY PUBLIC SIGNATURE <u>Kitty L. Bookout</u> | | MY COMMISSION EXPIRES <u>12/21/96</u> |
| NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>Kitty L. Bookout</u> | | |
| APPROVED BY DIRECTOR'S REPRESENTATIVE  | TITLE <u>Staff Director</u> | DATE APPROVED <u>7-9-94</u> |

COMPANY CHEMICAL LIME COMPANY OF MO., INC.

MINE NAME GIBBAR

COMMODITY LIMESTONE

LOCATION

COUNTY STE GENEVIEVE

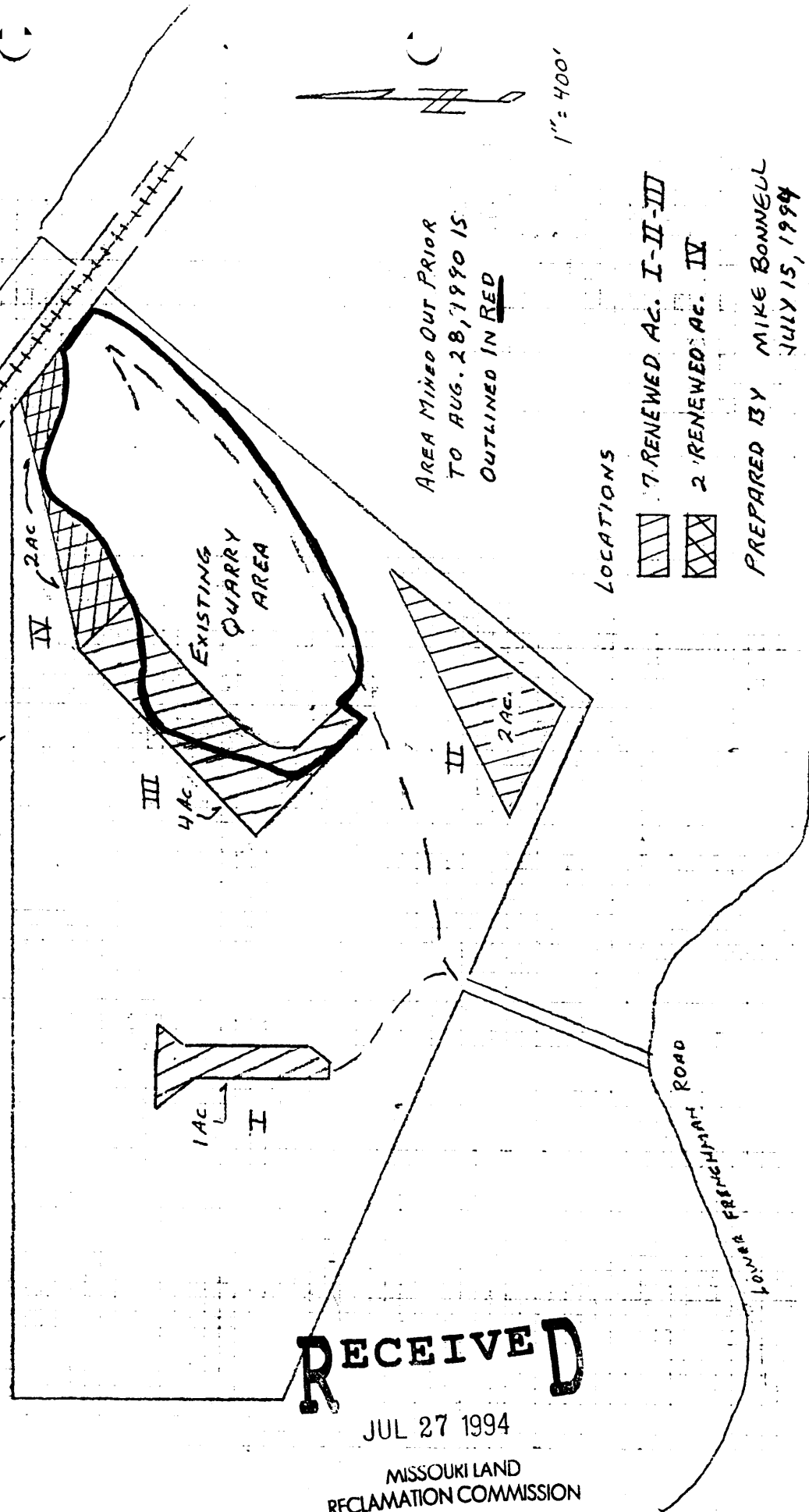
SECTION 12

TOWNSHIP 38 N

RANGE 8 E

MAP A

CHEMICAL LIME COMPANY OF MISSOURI, INC.
SURFACE + SUBSURFACE BOUNDRIES



LOCATIONS



7 RENEWED AC. I-II-III



2 RENEWED AC. IV

PREPARED BY MIKE BONNELL
JULY 15, 1994

RECEIVED

JUL 27 1994

MISSOURI LAND
RECLAMATION COMMISSION

Permit # 371

REC-RECEIVED

JUL 27 1994

MISSOURI LAND
RECLAMATION COMMISSION

Map "A"

Locations I and II are spoil and overburden stockpile areas

Locations III and IV are the Quarry site. Mining within these two locations is scheduled to be completed by June 1996.

Locations II - III - IV will become industrial and will be utilized by a new lime plant for their operation and raw materials storage.

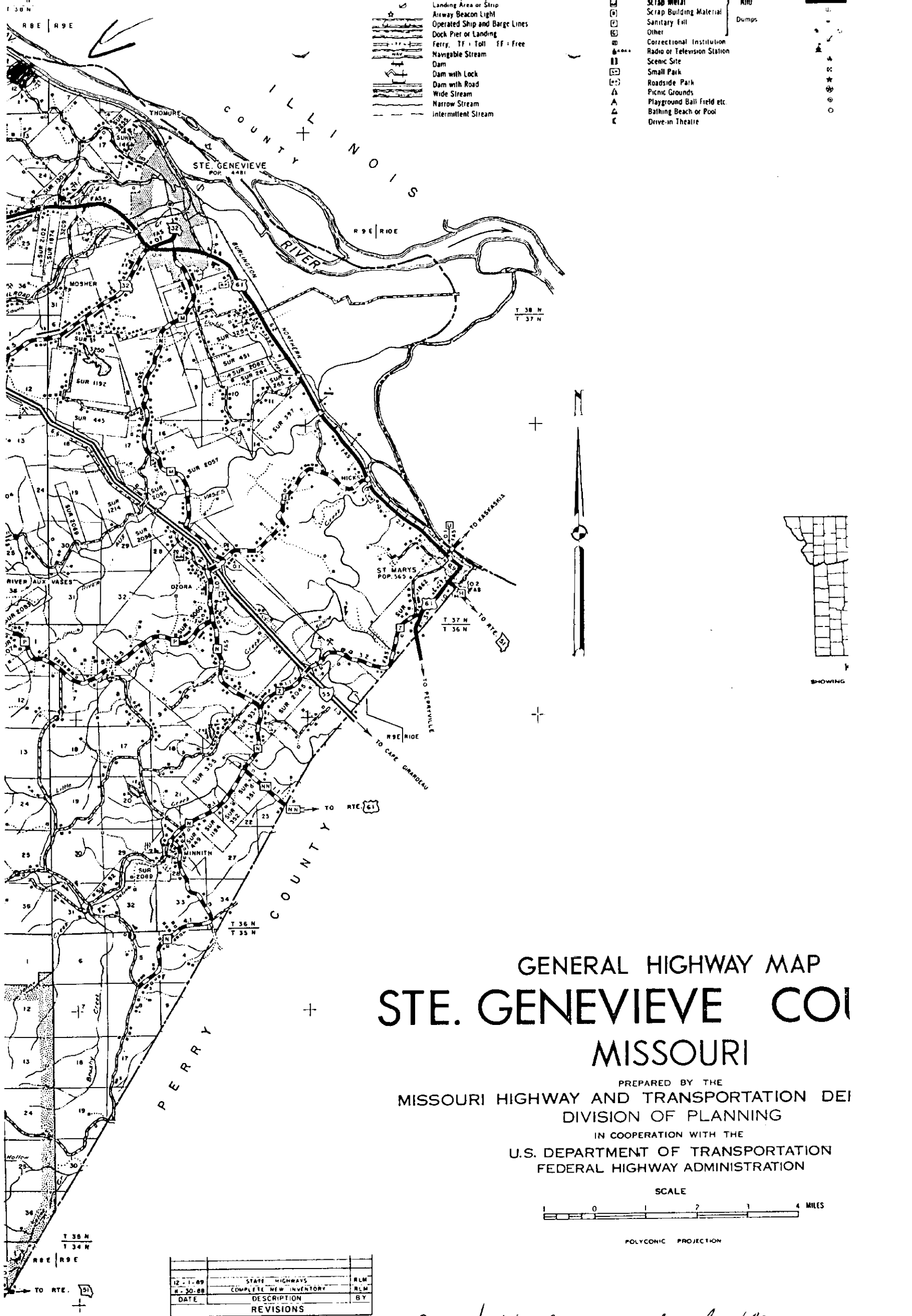
Location I will be reclaimed for ~~wildlife~~

*changed to industrial as per
letter from Chemical Lime Co.
dated Sept. 1, 1994 MB*

Map "B"

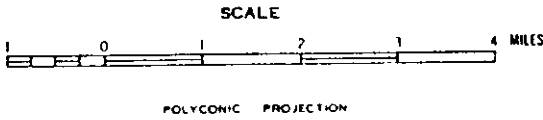
Prepared for reference of the property by Section,
Township, and Range

Both maps were prepared by MIKE BONNELL
July 15, 199



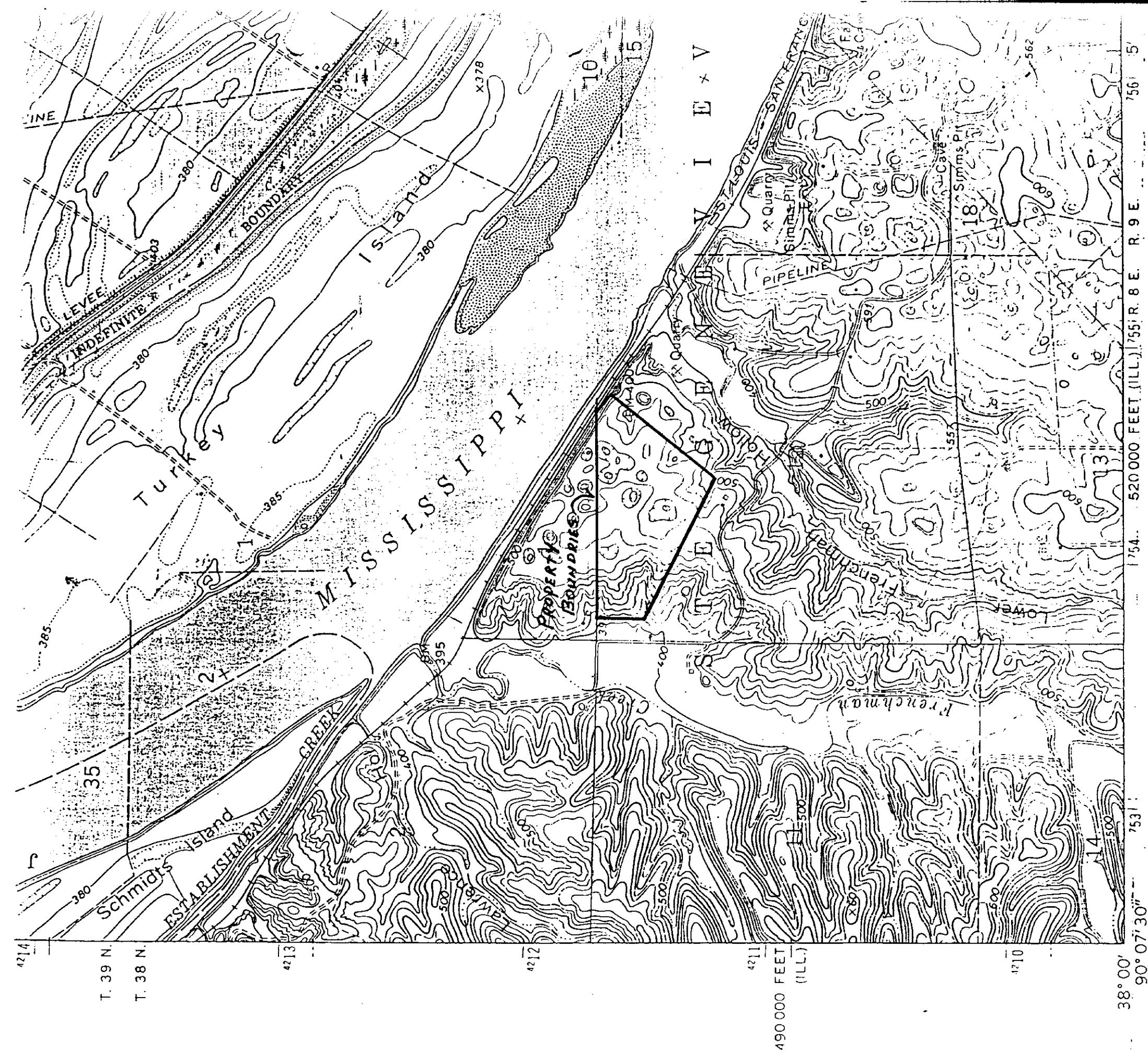
GENERAL HIGHWAY MAP
STE. GENEVIEVE COUNTY
MISSOURI

PREPARED BY THE
MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
DIVISION OF PLANNING
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



| | | |
|---------|------------------------|-----|
| 12-1-69 | STATE HIGHWAYS | RLM |
| 8-30-68 | COMPLETE NEW INVENTORY | RLM |
| DATE | DESCRIPTION | BY |
| | REVISIONS | |

Chemical Line Company at Mo. Route #371



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1968. Field checked 1970

MAP "B" SHOWS PROPERTY OUTLINE IN REFERENCE TO SECTION, TOWNSHIP, AND RANGE

MAP "B"

CHEMICAL LIME COMPANY OF MO, INC.
GIBBAR MINE

DATE PREPARED: JULY 15, 1994

BY: MIKE BONNELL

RECEIVED
JUL 27 1994
MISSOURI RECLAMATION COMMISSION